

### **What is Claimed is:**

1. A positioning and measuring station for photoelectric elements to accurately couple a measuring object with an external optical fiber, comprising:
  - a base;
  - 5 a platen located on a top side of the base having a flat surface for holding the measuring object;
  - a five-axis driving module located between the base and the platen to generate axial motions with respect to X, Y and Z axes, plate rotation to a selected angle, and plane inclination to another selected angle from the platen relative to the base; and
  - 10 a retaining member located on the platen having a top edge higher than a flat surface to be in contact with the measuring object for defining the holding position of the measuring object on the flat surface.
2. The positioning and measuring station of claim 1 further having an elevation controller for controlling the elevation of the retaining member relative to the flat
- 15 surface.
3. The positioning and measuring station of claim 1 further having a suction module located on one side of the platen.
4. The positioning and measuring station of claim 3, wherein the flat surface has a plurality of suction apertures communicating with the suction module for drawing air
- 20 through the apertures when the suction module operates so that the measuring object is held tightly on the platen.
5. The positioning and measuring station of claim 4, wherein the suction apertures are abutting the retaining member.
6. The positioning and measuring station of claim 4, wherein the suction apertures are

located in the center of the platen and dispersed outwards in a spaced manner.

7. The positioning and measuring station of claim 1, wherein the platen has an electric connecting section on one side thereof for receiving external electric power.
8. The positioning and measuring station of claim 1, wherein the platen has a cavity  
5 which holds a temperature sensor for measuring the temperature of the measuring environment.
9. The positioning and measuring station of claim 8, wherein the platen has a trough which holds a temperature regulator to control the temperature of the measuring environment within a selected range according to signals transmitted from the  
10 temperature sensor.
10. The positioning and measuring station of claim 1, wherein the platen has a surface plated with a sputtered conductive metal layer.
11. The positioning and measuring station of claim 1, wherein the base is made from an electric insulation material.
12. The positioning and measuring station of claim 1, wherein the retaining member is  
15 located on one side of the platen.
13. The positioning and measuring station of claim 1, wherein the flat surface has an elongated trough for holding the retaining member and allowing the retaining member to be exposed outside the flat surface.